



# California Regional Water Quality Control Board Los Angeles Region



Linda S. Adams  
Agency Secretary

Recipient of the 2001 *Environmental Leadership Award* from Keep California Beautiful

Arnold Schwarzenegger  
Governor

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Ms. Rosa Laveaga  
City of Pasadena Dept. of Public Works  
233 W. Mountain Avenue  
Pasadena, CA 91103

**WATER QUALITY CERTIFICATION FOR PROPOSED ARROYO SECO/  
BROOKSIDE PARK RESTORATION PROJECT (Corps' Project No. 2007-01413-VEN),  
ARROYO SECO, CITY OF PASADENA, LOS ANGELES COUNTY  
(File No. 07-016)**

Dear Ms. Laveaga:

Board staff has reviewed your request on behalf of City of Pasadena Dept. of Public Works (Applicant) for a Clean Water Act Section 401 Water Quality Certification for the above-referenced project. Your application was deemed complete on April 11, 2008.

I hereby issue an order certifying that any discharge from the referenced project will comply with the applicable provisions of sections 301 (Effluent Limitations), 302 (Water Quality Related Effluent Limitations), 303 (Water Quality Standards and Implementation Plans), 306 (National Standards of Performance), and 307 (Toxic and Pretreatment Effluent Standards) of the Clean Water Act, and with other applicable requirements of State law. This discharge is also regulated under State Water Resources Control Board Order No. 2003 - 0017 - DWQ, "General Waste Discharge Requirements for Dredge and Fill Discharges that have received State Water Quality Certification" which requires compliance with all conditions of this Water Quality Certification.

The Applicant shall be liable civilly for any violations of this Certification in accordance with the California Water Code. This Certification does not eliminate the Applicant's responsibility to comply with any other applicable laws, requirements and/or permits.

Should you have questions concerning this Certification action, please contact Valerie Carrillo, Lead, Section 401 Program, at (213) 576-5733.

\_\_\_\_\_  
[Original Signed by]  
Tracy J. Egoscue  
Executive Officer

\_\_\_\_\_  
April 28, 2008  
Date

**California Environmental Protection Agency**



*Our mission is to preserve and enhance the quality of California's water resources for the benefit of present and future generations.*

## DISTRIBUTION LIST

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Jim Bartel  
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**ATTACHMENT A**

**Project Information  
File No. 07-016**

1. Applicant: Rosa Laveaga  
City of Pasadena Dept. of Public Works  
233 W. Mountain Avenue  
Pasadena, CA 91103  
  
Phone: (626) 744-3883 Fax: (626) 744-3932
2. Applicant's Agent: Jenny Braus  
Camp Dresser & McKee Inc.  
1331 17th Street, Suite 1200  
Denver, CO 80202  
  
Phone: (303) 383-2432 Fax: (303) 293-8236
3. Project Name: Arroyo Seco Restoration/Brookside Park BMP Project
4. Project Location: City of Pasadena, Los Angeles County

Longitude in D°M'S"	Latitude in D°M'S"
118°9'57.2"	34°8'40.8"
118°9'58.3"	34°8'41.3"
118°9'54.0"	34°8'41.4"
118°9'54.9"	34°8'41.9"
118°9'53.3"	34°8'44.1"
118°9'51.6"	34°8'44.4"
118°9'53.3"	34°8'47.3"
118°9'52.3"	34°8'47.6"
118°9'56.2"	34°8'48.3"
118°9'55.4"	34°8'48.9"
118°9'56.7"	34°8'50.3"
118°9'55.8"	34°8'50.4"
118°9'23.0"	34°10'53.2"
118°10'21.7"	34°10'53.4"
118°10'26.0"	34°10'59.3"
118°10'24.7"	34°10'59.3"
118°10'26.7"	34°10'1.02"
118°10'24.1"	34°11'1.98"

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5. Type of Project: Stream restoration
6. Project Purpose: The purpose of the proposed project is to provide stream restoration and water quality improvements within Arroyo Seco.
7. Project Description: The proposed project consists of stream restoration and sediment and erosion control within two reaches of the Arroyo Seco. The reaches include:
- North Project Area (North) - from the Highway 210 bridge crossing of the Arroyo Seco downstream of the Devil's Gate Dam to the start of the concrete channel (790 foot reach length); and
  - South Project Area (South) - From the termination of the concrete channel near Brookside Park to the Colorado Boulevard Bridge crossing of Arroyo Seco (1,950 foot reach length).

The intent of the stream restoration is to create habitat conditions suitable to sustaining the federally listed endangered arroyo chub (*Gila orcutti*). Current instream conditions within the natural channel reaches of the North and South project areas are characterized by adequate overbank vegetative cover, but an absence of pools needed for refuge, and resting and juvenile rearing areas, and relatively few riffle sections needed for spawning.

The natural channel reaches are also subject to flash flood events due to the impervious upstream-urbanized watershed, operational releases from the Devils Gate Dam and the extremely high hydraulic efficiency of the concrete-lined channel reach. Without backwater pools, the chub and other aquatic species are at risk for being carried downstream through the concrete-lined channelized portions of the Lower Arroyo Seco that are completely devoid of any habitat.

The proposed improvements include:

- A series of wing deflectors and snags in the North area with an upstream and downstream weir used to define the extent of improvements and direct flow into and out of the improvement reach. These improvements will provide refuge, resting and spawning areas.

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- Three backwater pools in the South Area to provide resting areas during high flow events. Construction of weirs will occur to direct flow to the appropriate part of the channel as necessary during low flow conditions.

Construction of the backwater pools will create 1,546 square feet of wetlands area. These wetlands will be created by planting willow cuttings from established stands within the project area to a distance of 2 feet above the OHWM in the permanent pool area. In addition, broadcast seeding will be used to establish wetland herbaceous understory vegetation in these areas to include western ragweed, mugwort, Santa Barbara sedge, meadow barley, giant wild rye, deergrass, hoary nettle, and other native species. Additional wetlands are anticipated to develop below the OHWM over time through natural propagation at the three backwater pools and in the small backwater pools associated with the snags and wing deflectors.

8. Federal Agency/Permit: U.S. Army Corps of Engineers  
NWP No. 27 (Restoration)  
Permit No. 2007-01413-VEN
9. Other Required Regulatory Approvals: California Department of Fish and Game  
Streambed Alteration Agreement
10. California Environmental Quality Act Compliance: A Negative Declaration was prepared for the proposed project, pursuant to the provisions of CEQA. The Negative Determination was signed and approved by the City of Pasadena on May 3, 2001.
11. Receiving Water: Arroyo Seco (Hydrologic Unit No. 405.32)
12. Designated Beneficial Uses: MUN\*, IND, PROC, GWR, REC-1, REC-2, WARM, COLD, WILD, WET

\*Conditional beneficial use

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### Project Information File No. 07-016

13. Impacted Waters of the United States: Federal jurisdictional wetlands: 0.05 temporary  
Non-wetland waters (unvegetated streambed): 0.45 temporary
14. Dredge Volume: None
15. Related Projects Implemented/to be Implemented by the Applicant: The Central Arroyo Seco Stream Restoration Project was carried out by the City of Pasadena in the winter of 2004-2005. This project entailed removal of concrete debris, removal of exotic vegetation, native planting and installation of erosion control structures. There were no adverse impacts from this project.
- While no additional projects are planned for implementation in the next five years which may impact the same receiving body of water, several possible fish and habitat restoration projects have been identified by the Arroyo Seco Foundation within the Arroyo Seco Watershed. The U.S. Army Corp of Engineers is also scheduled to define projects within the watershed as part of their Arroyo Seco Watershed Feasibility Study.
16. Avoidance/Minimization Activities: The Applicant has proposed to implement several Best Management Practices, including, but not limited to, the following:
- The construction work zone will be managed to minimize disturbances to wetland and channel bed and bank areas.
  - All existing wetlands outside of the project area will be fenced off to prohibit disturbance.
  - All USACE requirements for temporary impacts will be followed.
  - The top 12 inches of wetland soils will be stockpiled and replaced following construction.
  - During construction, silt fencing will be utilized around all disturbed areas within the project site to prevent soil and other material from entering open water.

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- A vehicle tracking control pad will be placed at the construction staging area such that sediment is not tracked onto adjacent roadways within 100 feet of the project site.
- There will be no fuel storage within the project vicinity.
- Erosion control blankets will be placed on disturbed channel banks with any slope greater than 4:1.
- Any excess evacuated material will be hauled and placed off-site, away from the channel and wetlands.

17. Proposed  
Compensatory  
Mitigation:

The Applicant has not proposed compensatory mitigation because this project will enhance and create additional wetland habitat within Arroyo Seco. An additional 0.25 acres of wetland habitat will be created within Arroyo Seco.

18. Required  
Compensatory  
Mitigation:

Due to the restorative nature of the proposed project, the Regional Board will not require any additional compensatory mitigation. All restoration areas shall be monitored under the compensatory mitigation guidelines specified in Attachment B.

See *Attachment B, Conditions of Certifications, Additional Conditions* for modifications and additions to the above proposed compensatory mitigation.

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### Conditions of Certification File No. 07-016

#### STANDARD CONDITIONS

Pursuant to §3860 of Title 23 of the California Code of Regulations (23 CCR), the following three standard conditions shall apply to this project:

1. This Certification action is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to §13330 of the California Water Code and Article 6 (commencing with 23 CCR §3867).
2. This Certification action is not intended and shall not be construed to apply to any activity involving a hydroelectric facility and requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license unless the pertinent Certification application was filed pursuant to 23 CCR Subsection 3855(b) and the application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
3. Certification is conditioned upon total payment of any fee required pursuant to 23 CCR Chapter 28 and owed by the Applicant.

#### ADDITIONAL CONDITIONS

Pursuant to 23 CCR §3859(a), the Applicant shall comply with the following additional conditions:

1. The Applicant shall submit to this Regional Board copies of any other final permits and agreements required for this project, including, but not limited to, the U.S. Army Corps of Engineers' (ACOE) Section 404 Permit and the California Department of Fish and Game's (CDFG) Streambed Alteration Agreement. **These documents shall be submitted prior to any discharge to waters of the State.**
2. The Applicant shall adhere to the most stringent conditions indicated with either this certification, the CDFG's Streambed Alteration Agreement, or the ACOE Section 404 Permit.
3. The Applicant shall comply with all water quality objectives, prohibitions, and policies set forth in the *Water Quality Control Plan, Los Angeles Region (1994)*.
4. The Avoidance/Minimization activities proposed by the Applicant as described in Attachment A, No. **16**, are incorporated as additional conditions herein.

## **ATTACHMENT B**

### **Conditions of Certification File No. 07-016**

5. The Applicant and all contractors employed by the Applicant shall have copies of this Certification, the approved maintenance plan, and all other regulatory approvals for this project on site at all times and shall be familiar with all conditions set forth.
6. Fueling, lubrication, maintenance, operation, and storage of vehicles and equipment shall not result in a discharge or a threatened discharge to waters of the State. At no time shall the Applicant use any vehicle or equipment which leaks any substance that may impact water quality. Staging and storage areas for vehicles and equipment shall be located outside of waters of the State.
7. All excavation, construction, or maintenance activities shall follow best management practices to minimize impacts to water quality and beneficial uses. Dust control activities shall be conducted in such a manner that will not produce downstream runoff.
8. No construction material, spoils, debris, or any other substances associated with this project that may adversely impact water quality standards, shall be located in a manner which may result in a discharge or a threatened discharge to waters of the State. Designated spoil and waste areas shall be visually marked prior to any excavation and/or construction activity, and storage of the materials shall be confined to these areas.
9. All waste and/or dredged material removed shall be relocated to a legal point of disposal if applicable. A legal point of disposal is defined as one for which Waste Discharge Requirements have been established by a California Regional Water Quality Control Board, and is in full compliance therewith. Please contact Rodney Nelson, Land Disposal Unit, at (213) 620-6119 for further information.
10. The Applicant shall implement all necessary control measures to prevent the degradation of water quality from the proposed project in order to maintain compliance with the Basin Plan. The discharge shall meet all effluent limitations and toxic and effluent standards established to comply with the applicable water quality standards and other appropriate requirements, including the provisions of Sections 301, 302, 303, 306, and 307 of the Clean Water Act. This Certification does not authorize the discharge by the applicant for any other activity than specifically described in the 404 Permit.
11. The discharge shall not: a) degrade surface water communities and populations including vertebrate, invertebrate, and plant species; b) promote the breeding of mosquitoes, gnats, black flies, midges, or other pests; c) alter the color, create visual contrast with the natural appearance, nor cause aesthetically undesirable discoloration of the receiving waters; d) cause formation of sludge deposits; or e) adversely affect any designated beneficial uses.

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12. The Applicant shall allow the Regional Board and its authorized representative entry to the premises, including all mitigation sites, to inspect and undertake any activity to determine compliance with this Certification, or as otherwise authorized by the California Water Code.
13. Application of pesticides must be supervised by a certified applicator and be in conformance with manufacturer's specifications for use. Compounds used must be appropriate to the target species and habitat. All pesticides directed toward aquatic species must be approved by the Regional Board. Pesticide utilization shall be in accordance with State Water Resources Control Board Water Quality Order Nos. 2004-0008-DWQ and 2004-0009-DWQ.
14. The Applicant shall not conduct any construction activities within waters of the State during a rainfall event. The Applicant shall maintain a **five-day (5-day) clear weather forecast** before conducting any operations within waters of the State.
15. If rain is predicted after operations have begun, grading activities must cease immediately and the site must be stabilized to prevent impacts to water quality, and minimize erosion and runoff from the site.
16. The Applicant shall utilize the services of a qualified biologist with expertise in riparian assessments during any vegetation clearing activities. The biologist shall be available on site during construction activities to ensure that all protected areas are marked properly and ensure that no vegetation outside the specified areas is removed. The biologist shall have the authority to stop the work, as necessary, if instructions are not followed. The biologist shall be available upon request from this Regional Board for consultation within 24 hours of request of consultation.
17. No activities shall involve wet excavations (i.e., no excavations shall occur below the seasonal high water table). A minimum **5-foot** buffer zone shall be maintained above the existing groundwater level. If construction or groundwater dewatering is proposed or anticipated, the Applicant shall file a **Report of Waste Discharge** to this Regional Board and obtain any necessary NPDES permits/Waste Discharge Requirements prior to discharging waste. Sufficient time should be allowed to obtain any such permits (generally 180 days). If groundwater is encountered without the benefit of appropriate permits, the Applicant shall cease all activities in the areas where groundwater is present, file a Report of Waste Discharge to this Regional Board, and obtain any necessary permits prior to discharging waste.
18. All project/maintenance activities not included in this Certification, and which may require a permit, must be reported to the Regional Board for appropriate permitting. Bank stabilization and grading, as well as any other ground disturbances, are subject to restoration and revegetation requirements, and may require additional Certification action.

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19. All surface waters, including ponded waters, shall be diverted away from areas undergoing grading, construction, excavation, vegetation removal, and/or any other activity which may result in a discharge to the receiving water. If surface water diversions are anticipated, the Applicant shall develop and submit a **Surface Water Diversion Plan** (plan) to this Regional Board. The plan shall include the proposed method and duration of diversion activities, structure configuration, construction materials, equipment, erosion and sediment controls, and a map or drawing indicating the locations of diversion and discharge points. Contingency measures shall be a part of this plan to address various flow discharge rates. The plan shall be submitted prior to any surface water diversions. If surface flows are present, then upstream and downstream monitoring for the following shall be implemented:
- pH
  - temperature
  - dissolved oxygen
  - turbidity
  - total suspended solids(TSS)
  - Downstream TSS shall be maintained at ambient levels
  - Where natural turbidity is between 0 and 50 Nephelometric Turbidity Units (NTU), increases shall not exceed 20%. Where natural turbidity is greater than 50 NTU, increases shall not exceed 10%.

Analyses must be performed using approved US Environmental Protection Agency methods, where applicable. These constituents shall be monitored for on a daily basis during the first week of diversion and/or dewatering activities, and then on a weekly basis, thereafter, until the in-stream work is complete.

Results of the analyses shall be submitted to this Regional Board by the 15th day of each subsequent sampling month. A map or drawing indicating the locations of sampling points shall be included with each submittal. Diversion activities shall not result in the degradation of beneficial uses or exceedance of water quality objectives of the receiving waters. Any such violations may result in corrective and/or enforcement actions, including increased monitoring and sample collection.

20. The Applicant shall restore the proposed **0.50 acres** of TEMPORARY IMPACTS to waters of the United States and all other areas of temporary disturbance which could result in a discharge or a threatened discharge to waters of the State. Restoration shall include grading of disturbed areas to pre-project contours and revegetation with native species. Restored areas shall be monitored and maintained with native species as necessary for five years (see Condition No. 22). The Applicant shall implement all necessary Best Management Practices to control erosion and runoff from areas associated with this project.

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21. All open space and mitigation areas shall be placed within a conservation easement to ensure preservation in perpetuity. Documentation of proper easement placement shall be submitted to the Regional Board within one year.
22. The Applicant shall submit to this Regional Board **Annual Mitigation Monitoring Reports** (Annual Reports) by **January 1<sup>st</sup>** of each year for a minimum period of **five (5) years** in which successful mitigation has been achieved and documented. The Annual Reports shall describe in detail all of the project/construction activities performed during the previous year and all restoration efforts; including percent survival by plant species and percent cover. At a minimum the Annual Reports shall include the following documentation:
  - (a) Color photo documentation of the pre- and post-project and restoration site conditions;
  - (b) Geographical Positioning System (GPS) coordinates in decimal-degrees format outlining the boundary of the project areas;
  - (c) The overall status of project including a detailed schedule of work;
  - (d) Copies of all permits revised as required in Additional Condition 1;
  - (e) Water quality monitoring results (as required) compiled in an easy to interpret format;
  - (f) A certified Statement of “no net loss” of wetlands associated with this project;
  - (g) Discussion of any monitoring activities and exotic plant control efforts; and
  - (h) A certified Statement from the permittee or his/her representative that all conditions of this Certification have been met.
23. Prior to any subsequent maintenance activities within the project areas, including clearing, maintenance by-hand, and/or the application of pesticides, the Applicant shall submit to this Regional Board a NOTIFICATION of any such activity. Notification shall include: (a) the proposed schedule; (b) a description of the existing conditions; (c) the area of proposed temporary impact within waters of the State; (c) a description of any existing aquatic resources (e.g., wetland/riparian vegetation); and (d) any proposed compensatory mitigation. Notifications must be submitted a minimum of **three (3) weeks** prior to commencing work activities.
24. All applications, reports, or information submitted to the Regional Board shall be signed:
  - (a) For corporations, by a principal executive officer at least of the level of vice president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which discharge originates.

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- (b) For a partnership, by a general partner.
  - (c) For a sole proprietorship, by the proprietor.
  - (d) For a municipal, State, or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.
25. Each and any report submitted in accordance with this Certification shall contain the following completed declaration:

“I declare under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who managed the system or those directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Executed on the \_\_\_\_\_ day of \_\_\_\_\_ at \_\_\_\_\_.

\_\_\_\_\_  
\_\_\_\_\_  
(Signature)  
(Title)”

26. All communications regarding this project and submitted to this Regional Board shall identify the Project File Number **07-016**. Submittals shall be sent to the attention of the 401 Certification Unit.
27. Any modifications of the proposed project may require submittal of a new Clean Water Act Section 401 Water Quality Certification application and appropriate filing fee.
28. The project shall comply with the local regulations associated with the Regional Board’s **Municipal Stormwater Permit** issued to Los Angeles County and co-permittees under NPDES No. CAS004001 and Waste Discharge Requirements Order No. 01-182. This includes the Standard Urban Storm Water Mitigation Plan (SUSMP) and all related implementing local ordinances and regulations for the control of stormwater pollution from new development and redevelopment. The project shall also comply with all requirements of the National Pollutant Discharge Elimination System (NPDES) **General Permit** for Storm Water Discharges Associated with Construction Activity, Order No. 99-08-DWQ. All stormwater treatment systems shall be located outside of any water of the State and shall not be used as a wetland or riparian mitigation credit.

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29. Coverage under this Certification may be transferred to the extent the underlying federal permit may legally be transferred and further provided that the Applicant notifies the Executive Officer at least 30 days before the proposed transfer date, and the notice includes a written agreement between the existing and new Applicants containing a specific date of coverage, responsibility for compliance with this Certification, and liability between them.
30. The Applicant or their agents shall report any noncompliance. Any such information shall be provided verbally to the Executive Officer within 24 hours from the time the Applicant becomes aware of the circumstances. A written submission shall also be provided within five days of the time the Applicant becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected; the anticipated time it is expected to continue and steps taken or planned to reduce, eliminate and prevent recurrence of the noncompliance. The Executive Officer, or an authorized representative, may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.
31. *Enforcement:*
  - (a) In the event of any violation or threatened violation of the conditions of this Certification, the violation or threatened violation shall be subject to any remedies, penalties, process or sanctions as provided for under State law. For purposes of section 401(d) of the Clean Water Act, the applicability of any State law authorizing remedies, penalties, process or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this Certification.
  - (b) In response to a suspected violation of any condition of this Certification, the State Water Resources Control Board (SWRCB) or Regional Water Quality Control Board (RWQCB) may require the holder of any permit or license subject to this Certification to furnish, under penalty of perjury, any technical or monitoring reports the SWRCB deems appropriate, provided that the burden, including costs, of the reports shall be a reasonable relationship to the need for the reports and the benefits to be obtained from the reports.

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- (c) In response to any violation of the conditions of this Certification, the SWRCB or RWQCB may add to or modify the conditions of this Certification as appropriate to ensure compliance.
32. This Certification shall expire **five (5) years** from date of this Certification. The Applicant shall submit a complete application prior to termination of this Certification if renewal is requested.